

SEQUENCE LISTING

(1) GENERAL INFORMATION

- (i) APPLICANT: Hadlaczky, Gyula
Szalay, Aladar
 - (ii) TITLE OF THE INVENTION: ARTIFICIAL CHROMOSOMES, USES THEREOF
AND METHODS FOR PREPARING ARTIFICIAL CHROMOSOMES
 - (iii) NUMBER OF SEQUENCES: 34
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Heller Ehrman White & McAuliffe
 - (B) STREET: 4250 Executive Square, 7th Floor
 - (C) CITY: La Jolla
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 92037
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Diskette
 - (B) COMPUTER: IBM Compatible
 - (C) OPERATING SYSTEM: DOS
 - (D) SOFTWARE: FastSEQ Version 1.5
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE: 28-NOV-2000
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/835,682
 - (B) FILING DATE: 10-APR-1997
 - (C) CLASSIFICATION:
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/695,191
 - (B) FILING DATE: 07-AUG-1996
 - (C) CLASSIFICATION:
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/682,080
 - (B) FILING DATE: 15-JUL-1996
 - (C) CLASSIFICATION:
 - (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: 08/629,822
 - (B) FILING DATE: 10-APR-1996
 - (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Seidman, Stephanie L
 - (B) REGISTRATION NUMBER: 33,779
 - (C) REFERENCE/DOCKET NUMBER: 24601-402G
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 858-450-8403
 - (B) TELEFAX: 858-587-5360
 - (C) TELEX:
- (2) INFORMATION FOR SEQ ID NO:1:
- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1293 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GAATTCATCA	TTTTTCANGT	CCTCAAGTGG	ATGTTTCTCA	TTTNCCATGA	TTTAAAGTTT	60
TCTCGCCATA	TTCTTGGTCC	TACAGTGTGC	ATTTCTCCAT	TTNCACGTT	TTNCAGTGAT	120
TTCGTCAATT	TCAAGTCCTC	AAGTGGATGT	TTCTCATTTN	CCATGAATTT	CAGTTTTCTN	180
GCCATATTCC	ACGTCTTACA	GNGGACATTT	CTAAATTTNC	CACCTTTTTT	AGTTTTCTCT	240
GCCATATTTT	ACGTCTTAAA	ATGTGTATTT	CTCGTTTNC	GTGATTTTCA	GTTTTCTCGC	300
CAGATTCCAG	GTCTATAAAT	GTGCATTTCT	CATTTNNCAC	GTTTTTCAGT	GATTTCTGCA	360
TTTTTTCAAG	TCGGCAAGTG	GATGTTTCTC	ATTTNCCATG	ATTTNCAGTT	TTCTTGNAAT	420
ATTCCATGTC	CTACAATGAT	CATTTTAAAT	TTTCCACCTT	TTTCAATTTT	CACGCCATAT	480
TTTATGTCCT	AAAGTGATATA	TTTCTCCTTT	TTCCGCGATT	TCAGTTTTCT	CGCCATATTC	540
CAGGTCCTAC	AGTGTGCATT	CCTCATTTTT	CACCTTTTTT	ACTGATTTTC	TCATTTTTTCA	600
AGTCGTCAAC	TGGATCTTTC	TAATTTTCCA	TGATTTTTCAG	TTATCTTGTC	ATATTCCATG	660
TCCTACAGTG	GACATTTCTA	AATTTTCCAA	CTTTTTCAT	TTTTCTCGAC	ATATTGACG	720
TGCTAAAGTG	TGTATTTCTT	ATTTTCCGTG	ATTTTCAGTT	TTCTCGCCAT	ATTCCAGGTC	780
CTAATAGTGT	GCATTTCTCA	TTTTTCACGT	TTTTTCAGTG	TTTCGTCATT	TTTTCCAGTT	840
GTCAAGGGGA	TGTTTCTCAT	TTTCCATGAG	TGTCAGTTTT	CTTGCTATAT	TCATGTCTCT	900
ACAGTGACAT	TTCTAAATAT	TATACCTTTT	TCAGTTTTTC	TCACCATATT	TCACGTCCTA	960
AAGTATATAT	TTCTCATTTT	CCCTGATTTT	CAGTTTCTCT	GCCATATTCC	AGGTCTTACA	1020
GTGTGCATTT	CTCATTTTTC	ACGTTTTTTC	GTAATTTCTT	CATTTTTTAA	GCCCTCAAAT	1080
GGATGTTTCT	CATTTTCCAT	GATTTTCAGT	TTTCTTGCCA	TATACCATGT	CCTACAGTGG	1140
ACATTTCTAA	ATTATCCACC	TTTTTCAGTT	TTTCATCGGC	ACATTTTCAG	TCCTAAAGTG	1200
TGTATTTCTA	ATTTTCAGTG	ATTTTCAGTT	TTCTCGCCAT	ATTCCAGGAC	CTACAGTGTG	1260
CATTTCTCAT	TTTTTCACGT	TTTCAGTGAA	TTC			1293

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 1044 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

AGGCCTATGG	TGAAAAAGGA	AATATCTTCC	CCTGAAAAC	AGACAGAAGG	ATTCTCAGAA	60
TCTTATTTGT	GATGTGCGCC	CCTCAACTAA	CAGTGTTGAA	GCTTTCTTTT	GATAGAGCAG	120
TTTTGAAACA	CTCTTTTGT	AAAATCTGCA	AGAGGATATT	TGGATAGCTT	TGAGGATTTT	180
CGTTGGAAAC	GGGATTGTCT	TCATATAAAC	CCTAGACAGA	AGCATTCTCA	GAAGCTTCAT	240
TGGGATGTTT	CAGTTGAAGT	CACAGTGTTG	AACAGTCCCC	TTTCATAGAG	CAGGTTTGAA	300
ACACTCTTTT	TTGTAGTATC	TGGAAGTGGA	CATTTGGAGC	GATCTCAGGA	CTGCGGTGAA	360
AAAGGAAATA	TCTTCCAATA	AAAGCTAGAT	AGAGGCAATG	TCAGAAACCT	TTTTCATGAT	420
GTATCTACTC	AGCTAACAGA	GTTGAACCTT	CCTTTGAGAG	AGCAGTTTTC	AAACACTCTT	480
TTTGTGGAAT	CTGCAAGTGG	ATATTTGTCT	AGCTTTGAGG	ATTTCTGTTG	GAAACGGGAT	540
TACATATAAA	AAGCAGACAG	CAGCATTCCC	AGAACTTCT	TTGTGATGTT	TGCATTCAAG	600
TCACAGAGTT	GAACATTCCC	TTTCATAGAG	CAGGTTTGAA	ACACACTTTT	TGATGTATCT	660

GGATGTGGAC	ATTTGCAGCG	CTTTCAGGCC	TAAGGTGAAA	AGGAAATATC	TTCCCCTGAA	720
AACTAGACAG	AAGCATTCTC	AGAAACTTAT	TTGTGATGTG	CGCCCTCAAC	TAACAGTGTT	780
GAAGCTTTCT	TTTGATAGAG	GCAGTTTTGA	AACACTCTTT	TGTGGAATCT	GCAAGTGGAT	840
ATTTGTCTAG	CTTTGAGGAT	TTCTTTGGAA	ACGGGATTAC	ATATAAAAAG	CAGACAGCAG	900
CATTCCCAAG	ATCTTGTTTG	TGATGTTTGC	ATTCAAGTCA	CAGAGTTGAA	CATTCCCTTT	960
CAGAGAGCAG	GTTTGAACAC	TCTTTTTATA	GTATCTGGAT	GTGGACATTT	GGAGCGCTTT	1020
CAGGGGGGAT	CCTCTAGAAT	TCCT				1044

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2492 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTGCAGCTGG	GGGTCTCCAA	TCAGGCAGGG	GCCCTTACT	ACTCAGATGG	GGTGGCCGAG	60
TAGGGGAAGG	GGGTGCAGGC	TGCATGAGTG	GACACAGCTG	TAGGACTACC	TGGGGGCTGT	120
GGATCTATGG	GGGTGGGGAG	AAGCCCAGTG	ACAGTGCCTA	GAAGAGACAA	GGTGGCCTGA	180
GAGGGTCTGA	GGAACATAGA	GCTGGCCATG	TTGGGGCCAG	GTCTCAAGCA	GGAAGTGAGG	240
AATGGGACAG	GCTTGAGGAT	ACTTACTCA	GTAGCCAGGA	TAGCAAGGAG	GGCTTGGGGT	300
TGCTATCCTG	GGGTTCAACC	CCCCAGGTTG	AAGGCCCTGG	GGGAGATGGT	CCCAGGACAT	360
ATTACAATGG	ACACAGGAGG	TTGGGACACC	TGGAGTCACC	AAACAAAACC	ATGCCAAGAG	420
AGACCATGAG	TAGGGGTGTC	CAGTCCAGCC	CTCTGACTGA	GCTGCATTGT	TCAAATCCAA	480
AGGGCCCCTG	CTGCCACCTA	GTGGCTGATG	GCATCCACAT	GACCTTGGGC	CACACGCGTT	540
TAGGGTCTCT	GTGAAGACCA	AGATCCTTGT	TACATTGAAC	GACTCCTAAA	TGAGCAGAGA	600
TTTCCACCTA	TTCGAAACAA	TCACATAAAA	TCCATCCTGG	AAAAAGCCTG	GGGGATGGCA	660
CTAAGGCTAG	GGATAGGGTG	GGATGAAGAT	TATAGTTACA	GTAAGGGGTT	TAGGGTTAGG	720
GATCAACGTT	GGTTAGGAGT	TAGGGATACA	GTAGGGTACC	GGTAGGGTTA	GGGGTTAGGG	780
TTAGGGGTTA	GGGTTAGGGT	TAGGGTTAGG	GTTAGGGTTA	GGGGTTAGGG	GTTAGGGTTA	840
GGGTTAGGTT	TTGGGGTGGC	GTATTTTGGT	CTTATACGCT	GTGTTCCACT	GGCAATGAAA	900
AGAGTTCTTG	TTTTTCCTTC	AGCAATTTGT	CATTTTTTAAA	AGAGTTTAGC	AATTCTAACA	960
GATATAGACC	AGCTGTGCTA	TCTCATTTGT	GTTTTTCAATT	GTAACCACAT	TGTGGTTTCA	1020
ATGTGTTTAC	TTGCCATCTG	TAGATCTTCT	TTGCGTGAGG	TGTCTGTTCA	GATGTGTGTG	1080
CATTTCTTGN	NTTTNGGCTG	TTTAACTTAT	TGTTTAGTTT	TAATAATTTT	TTATATATTT	1140
GAAGACAAAT	CTTCTCAGA	TGTGTATTTG	CAAATATTTT	TTCAATATGA	GGCTTGCTTT	1200
TGTCTCTAAC	AAGGTCTCTT	CAGAGATAAC	TTAAATATAA	GAAATCCACA	CTGTCACCTT	1260
TTTTGTGTAT	ATCTACCTTT	TGTGTCATTT	GTTAAAATTC	ATTACCAAAC	CCAAAGGCAG	1320
ATAGCTTTTT	TTCTATTGTT	TCTTCTAGAA	ATTTGTATAG	TTTTGCATTT	TTAGTGTAAG	1380
GATGATTTTG	AGTGATTATT	TGTGTAAGTT	GTAAAGTTTT	CGTCTATATC	CATATCATTT	1440
CTTATGGTTT	CCAATTAATC	GTTCCCTCAC	TATTTTTTGGG	AAAGACACAG	GATAGTGGGC	1500
TTTGTTAGAG	TAGATAGGTA	GCTAGACATG	AACAGGAGGG	GGCCTCCTGG	AAAAGGGAAA	1560
GTCTGGGAAG	GCTCACCTGG	AGGACCACCA	AAAATTCACA	TATTAGTAGC	ATCTCTAGTG	1620
CTGGAGTGGA	TGGGCACTTG	TCAATTGTGG	GTAGGAGGGA	AAAGAGGTCC	TATGCAGAAA	1680
GAAACTCCCT	AGAACTCCTC	TGAAGATGCC	CCAATCATTC	ACTCTGCAAT	AAAAATGTCA	1740
GAATATTGCT	AGCTACATGC	TGATAAGGNN	AAAGGGGACA	TTCTTAAGTG	AAACCTGGCA	1800
CCATAAGTAC	AGATTAGGGC	AGAGAAGGAC	ATTCAAAAGA	GGCAGGCGCA	GTAGGTACAA	1860
ACGTGATCGC	TGTCAGTGTG	CCTGGGATGG	CGGGAAGGAG	GCTGGTGCCA	GAGTGGATTTC	1920
GTATTGATCA	CCACACATAT	ACCTCAACCA	ACAGTGAGGA	GGTCCCACAA	GCCTAAGTGG	1980
GGCAAGTTGG	GGAGCTAAGG	CAGTAGCAGG	AAAACCAGAC	AAAGAAAACA	GGTGGAGACT	2040
TGAGACAGAG	GCAGGAATGT	GAAGAAATCC	AAAATAAAAT	TCCCTGCACA	GGACTCTTAG	2100
GCTGTTTAAAT	GCATCGCTCA	GTCCCCTCTC	TCCCTATTTT	TCTACAATAA	ACTCTTTTACA	2160
CTGTGTTTCT	TTTCAATGAA	GTTATCTGCC	ATCTTTGTAT	TGCCTCTTGG	TGAAAATGTT	2220
TCTTCCAAGT	TAAACAAGAA	CTGGGACATC	AGCTCTCCCC	AGTAATAGCT	CCGTTTTCAGT	2280

TTGAATTTAC	AGAACTGATG	GGCTTAATAA	CTGGCGCTCT	GACTTTAGTG	GTGCAGGAGG	2340
CCGTCACACC	GGGACCAAGA	GTGCCCTGCC	TAGTCCCCAT	CTGCCCCGAG	GTGGCGGCTG	2400
CCTCGACACT	GACAGCAATA	GGGTCCGGCA	GTGTCCCCAG	CTGCCAGCAG	GGGGCGTACG	2460
ACGACTACAC	TGTGAGCAAG	AGGGCCCTGC	AG			2492

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGGGAATTCA	TTGGGATGTT	TCAGTTGA	28
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(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

CGAAAGTCCC	CCCTAGGAGA	TCTTAAGGA	29
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(2) INFORMATION FOR SEQ ID NO:6:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 47 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: RNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

CCGCTTAATA	CTCTGATGAG	TCCGTGAGGA	CGAAACGCTC	TCGCACC
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(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 25 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

CGATTAAAT TAATTAAGCC CGGGC

25

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 27 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:
 (ix) FEATURE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

TAAATTTAAT TAATTCGGGC CCGTCGA

27

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 69 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (D) OTHER INFORMATION IL-2 signal sequence
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ATG TAC AGG ATG CAA CTC CTG TCT TGC ATT GCA CTA AGT CTT GCA CTT
 Met Tyr Arg Met Gln Leu Leu Ser Cys Ile Ala Leu Ser Leu Ala Leu

48

GTC ACA AAC AGT GCA CCT ACT
 Val Thr Asn Ser Ala Pro Thr

69

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 945 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(A) NAME/KEY: Coding Sequence

(B) LOCATION: 1...942

(D) OTHER INFORMATION: Renilla Reinformis Luciferase

(x) PUBLICATION INFORMATION:

PATENT NO.: 5,418,155

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AGC	TTA	AAG	ATG	ACT	TCG	AAA	GTT	TAT	GAT	CCA	GAA	CAA	AGG	AAA	CGG	48
Ser	Leu	Lys	Met	Thr	Ser	Lys	Val	Tyr	Asp	Pro	Glu	Gln	Arg	Lys	Arg	
1				5					10					15		
ATG	ATA	ACT	GGT	CCG	CAG	TGG	TGG	GCC	AGA	TGT	AAA	CAA	ATG	AAT	GTT	96
Met	Ile	Thr	Gly	Pro	Gln	Trp	Trp	Ala	Arg	Cys	Lys	Gln	Met	Asn	Val	
			20					25					30			
CTT	GAT	TCA	TTT	ATT	AAT	TAT	TAT	GAT	TCA	GAA	AAA	CAT	GCA	GAA	AAT	144
Leu	Asp	Ser	Phe	Ile	Asn	Tyr	Tyr	Asp	Ser	Glu	Lys	His	Ala	Glu	Asn	
		35				40						45				
GCT	GTT	ATT	TTT	TTA	CAT	GGT	AAC	GCG	GCC	TCT	TCT	TAT	TTA	TGG	CGA	192
Ala	Val	Ile	Phe	Leu	His	Gly	Asn	Ala	Ala	Ser	Ser	Tyr	Leu	Trp	Arg	
	50					55				60						
CAT	GTT	GTG	CCA	CAT	ATT	GAG	CCA	GTA	GCG	CGG	TGT	ATT	ATA	CCA	GAT	240
His	Val	Val	Pro	His	Ile	Glu	Pro	Val	Ala	Arg	Cys	Ile	Ile	Pro	Asp	
65					70				75					80		
CTT	ATT	GGT	ATG	GGC	AAA	TCA	GGC	AAA	TCT	GGT	AAT	GGT	TCT	TAT	AGG	288
Leu	Ile	Gly	Met	Gly	Lys	Ser	Gly	Lys	Ser	Gly	Asn	Gly	Ser	Tyr	Arg	
				85					90					95		
TTA	CTT	GAT	CAT	TAC	AAA	TAT	CTT	ACT	GCA	TGG	TTG	AAC	TTC	TTA	ATT	336
Leu	Leu	Asp	His	Tyr	Lys	Tyr	Leu	Thr	Ala	Trp	Leu	Asn	Phe	Leu	Ile	
			100					105					110			
TAC	CAA	AGA	AGA	TCA	TTT	TTT	GTC	GGC	CAT	GAT	TGG	GGT	GCT	TGT	TTG	384
Tyr	Gln	Arg	Arg	Ser	Phe	Phe	Val	Gly	His	Asp	Trp	Gly	Ala	Cys	Leu	
		115					120					125				
GCA	TTT	CAT	TAT	AGC	TAT	GAG	CAT	CAA	GAT	AAG	ATC	AAA	GCA	ATA	GTT	432
Ala	Phe	His	Tyr	Ser	Tyr	Glu	His	Gln	Asp	Lys	Ile	Lys	Ala	Ile	Val	
	130					135					140					
CAC	GCT	GAA	AGT	GTA	GTA	GAT	GTG	ATT	GAA	TCA	TGG	GAT	GAA	TGG	CCT	480
His	Ala	Glu	Ser	Val	Val	Asp	Val	Ile	Glu	Ser	Trp	Asp	Glu	Trp	Pro	
145					150					155					160	
GAT	ATT	GAA	GAA	GAT	ATT	GCG	TTG	ATC	AAA	TCT	GAA	GAA	GGA	GAA	AAA	528
Asp	Ile	Glu	Glu	Asp	Ile	Ala	Leu	Ile	Lys	Ser	Glu	Glu	Gly	Glu	Lys	
				165					170				175			
ATG	GTT	TTG	GAG	AAT	AAC	TTC	TTC	GTG	GAA	ACC	ATG	TTG	CCA	TCA	AAA	576
Met	Val	Leu	Glu	Asn	Asn	Phe	Phe	Val	Glu	Thr	Met	Leu	Pro	Ser	Lys	
			180					185					190			
ATC	ATG	AGA	AAG	TTA	GAA	CCA	GAA	GAA	TTT	GCA	GCA	TAT	CTT	GAA	CCA	624

Ile	Met	Arg	Lys	Leu	Glu	Pro	Glu	Glu	Phe	Ala	Ala	Tyr	Leu	Glu	Pro		
		195					200					205					
TTC	AAA	GAG	AAA	GGT	GAA	GTT	CGT	CGT	CCA	ACA	TTA	TCA	TGG	CCT	CGT	672	
Phe	Lys	Glu	Lys	Gly	Glu	Val	Arg	Arg	Pro	Thr	Leu	Ser	Trp	Pro	Arg		
	210					215					220						
GAA	ATC	CCG	TTA	GTA	AAA	GGT	GGT	AAA	CCT	GAC	GTT	GTA	CAA	ATT	GTT	720	
Glu	Ile	Pro	Leu	Val	Lys	Gly	Gly	Lys	Pro	Asp	Val	Val	Gln	Ile	Val		
	225				230					235					240		
AGG	AAT	TAT	AAT	GCT	TAT	CTA	CGT	GCA	AGT	GAT	GAT	TTA	CCA	AAA	ATG	768	
Arg	Asn	Tyr	Asn	Tyr	Leu	Arg	Ala	Ser	Asp	Asp	Leu	Pro	Lys	Met			
				245				250						255			
TTT	ATT	GAA	TCG	GAT	CCA	GGA	TTC	TTT	TCC	AAT	GCT	ATT	GTT	GAA	GGC	816	
Phe	Ile	Glu	Ser	Asp	Pro	Gly	Phe	Phe	Ser	Asn	Ala	Ile	Val	Glu	Gly		
			260				265						270				
GCC	AAG	AAG	TTT	CCT	AAT	ACT	GAA	TTT	GTC	AAA	GTA	AAA	GGT	CTT	CAT	864	
Ala	Lys	Lys	Phe	Pro	Asn	Thr	Glu	Phe	Val	Lys	Val	Lys	Gly	Leu	His		
		275					280					285					
TTT	TCG	CAA	GAA	GAT	GCA	CCT	GAT	GAA	ATG	GGA	AAA	TAT	ATC	AAA	TCG	912	
Phe	Ser	Gln	Glu	Asp	Ala	Pro	Asp	Glu	Met	Gly	Lys	Tyr	Ile	Lys	Ser		
	290					295					300						
TTC	GTT	GAG	CGA	GTT	CTC	AAA	AAT	GAA	CAA	TAA						945	
Phe	Val	Glu	Arg	Val	Leu	Lys	Asn	Glu	Gln								
	305				310												

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

TTTGAATTC A TGTACAGGAT GCAACTCCTG

30

(2) INFORMATION FOR SEQ ID NO:12:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 30 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(ix) FEATURE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

TTTGAATTCA GTAGGTGCAC TGTTTGTAC

30

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACTG	GGTTTGCCCT	TAATTCAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAC	GACTGACACC	ATTAACACTT	TGTCAGCCTC	AGTGACTACA	GTCATAGATG	240
AACAGGCCTC	AGCTAATGTC	AAGATACAGA	GAGGTCTCAT	GCTGGTTAAT	CAACTCATAG	300
ATCTTGTCCA	GATACAATA	GATGTATTAT	GACAAATAAC	TCAGCAGGGA	TGTGAACAAA	360
AGTTTCCGGG	ATTGTGTGTT	ATTTCCATTC	AGTATGTTAA	ATTIACTAGG	ACAGCTAATT	420
TGTCAAAAAG	TCTTTTTCAG	TATATGTTAC	AGAATTGGAT	GGCTGAATTT	GAACAGATCC	480
TTCCGGGAATT	GAGACTTCAG	GTCAACTCCA	CGCGCTTGGA	CCTGTCGCTG	ACCAAAGGAT	540
TACCCAATTG	GATCTCCTCA	GCATTTTCTT	TCTTTAAAAA	ATGGGTGGGA	TTAATATTAT	600
TTGGAGATAC	ACTTTGCTGT	GGATTAGTGT	TGCTTCTTTG	ATTGGTCTGT	AAGCTTAAGG	660
CCCAAACCTAG	GAGAGACAAG	GTGGTTATTG	CCCAGGCGCT	TGCAGGACTA	GAACATGGAG	720
CTTCCCCTGA	TATATGGTTA	TCTATGCTTA	GGCAATAGGT	CGCTGGCCAC	TCAGCTCTTA	780
TATCCACGGA	GGCTAGTCTC	ATTGTACGGG	ATAGAGTGAG	TGTGCTTCAG	CAGCCCGAGA	840
GAGTTGCAAG	GCTAAGCACT	GCAATGGAAA	GGCTCTGCGG	CATATATGTG	CCTATTCTAG	900
GGGGACATGT	CATCTTTTCAT	GAAGGTTTCAG	TGTCCTAGTT	CCCTTCCCCC	AGGCAAAACG	960
ACACGGGAGC	AGGTCAGGGT	TGCTCTGGGT	AAAAGCCTGT	GAGCCTGGGA	GCTAATCCTG	1020
TACATGGCTC	CTTTACCTAC	ACACTGGGGA	TTTGACCTCT	ATCTCCACTC	TCATTAATAT	1080
GGGTGGCCTA	TTTGCTCTTA	TTAAAAGGAA	AGGGGGAGAT	GTGGGGAGCC	GCGCCACAT	1140
TCGCCGTTAC	AAGATGGCGC	TGACAGCTGT	GTTCTAAGTG	GTAAACAAAT	AATCTGCGCA	1200
TGTGCCGAGG	GTGGTTCTTC	ACTCCATGTG	CTCTGCCTTC	CCCGTGACGT	CAACTCGGCC	1260
GATGGGCTGC	AGCCAATCAG	GGAGTGACAC	GTCCTAGGCG	AAGGAGAAAT	CTCCTTAATA	1320
GGGACGGGGT	TTCGTTCTCT	CTCTCTCTCT	TGCTTCTCTC	TCTTGCTTTT	TCGCTCTCTT	1380
GCTTCCCGTA	AAGTGATAAT	GATTATCATC	TACATATCAC	AACGTGCGTG	GAGG	1434

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	AGAGCAGCGT	TGGGGGATAA	60
TGTCGACATT	TCCACTCCCA	ATGACGGTGA	TGTATAATGC	TCAAGTATTC	TCCTGCTTTT	120
TTACCACTAA	CTAGGAACTG	GGTTTGCCCT	TAATTCAGAC	AGCCTTGGCT	CTGTCTGGAC	180
AGGTCCAGAT	ACAACCTAGAT	GTATTATGAC	AAATAACTCA	GCAGGGATGT	GAACAAAAGT	240

TTCCGGGATT	GCGTGTATT	TCCATCCAGT	ATGTTAAATT	TACTAGGGCA	GCTAATTTGT	300
CAAAAAGTCT	TTTCCAGTAT	ATGTTACAGA	ATTGGATGGC	TGAATTTGAA	CAGATCCTTC	360
GGGAATTGAG	ACTTCAGGTC	AACTCCACGC	GCTTGGACCT	GTCCCTGACC	AAAGGATTAC	420
CCAATTGGAT	CTCCTCAGCA	TTTTCTTTCT	TTAAAAAATG	GGTGGGATTA	ATATTATTTG	480
GAGATACACT	TTGCTGTGGA	TTAGTGTTC	TTCTTTGATT	GGTCTGTAAG	CTTAAGGCCC	540
AACTAGGAG	AGACAAGGTG	GTTATTGCCC	AGGCGCTTGC	AGGACTAGAA	CATGGAGCTT	600
CCCCTGATAT	ATCTATGCTT	AGGCAATAGG	TCGCTGGCCA	CTCAGCTCTT	ATATCCCATG	660
AGGCTAGTCT	CATTGCACGG	GATAGAGTGA	GTGTGCTTCA	GCAGCCCGAG	AGAGTTGCAC	720
GGCTAAGCAC	TGCAATGGAA	AGGCTCTGCG	GCATATATGA	GCCTATTCTA	GGGAGACATG	780
TCATCTTTCA	AGAAGGTTGA	GTGTCCAAGT	GTCTTCTCTC	CAGGCAAAAC	GACACGGGAG	840
CAGGTCAGGG	TTGCTCTGGG	TAAAAGCCTG	TGAGCCTAAG	AGCTAATCCT	GTACATGGCT	900
CCTTTACCTA	CACACTGGGG	ATTTGACCTC	TATCTCCACT	CTCATTAATA	TGGGTGGCCT	960
ATTTGCTCTT	ATTAAAAGGA	AAGGGGGAGA	TGTTGGGAGC	CGCGCCCACA	TTCGCCGTTA	1020
CAAGATGGCG	CTGACAGCTG	TGTTCTAAGT	GGTAAACAAA	TAATCTGCGC	ATGCGCCGAG	1080
GGTGGTTCTT	CACTCCATGT	GCTCTGCCTT	CCCCGTGACG	TCAACTCGGC	CGATGGGCTG	1140
CAGTCAATCA	GGGAGTGACA	CGTCCTAGGC	GAAGGAAAAAT	TCTCCTTAAT	AGGGACGGGG	1200
TTTCGTTTTT	TCTCTCTCTT	GCTTCGCTCT	CTCTTGCTTC	TTGCTCTCTT	TTCCTGAAGA	1260
TGTAAGAATA	AAGCTTTGCC	GCAGAAGATT	CTGGTCTGTG	GTGTTCTTCC	TGGCCGGTCG	1320
TGAGAACGCG	TCTAATAACA	ATTGGTGCCG	AAACCCGGGT	GATAATGATT	ATCATCTACA	1380
TATCACAACG	TGCGTGGAGG					1400

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CCTCCACGCA	CGTTGTGATA	TGTAGATGAT	AATCATTATC	ACTTTACGGG	TCCTTTCCT	60
ACAAGTGCCA	CGAGGCCCCG	TGCTCTGGTA	ATAGATCTTT	GCTGAAAAGG	CACACACATG	120
ACACATTACT	CAAGGTGGGG	TCATCTGAGC	TGCAGATTCA	GCTTAATATG	AATCTTGCCA	180
ATTGTGTGAA	ATCATAAATC	TTCAAAGTGA	CACCTATTGC	CAGACACAGG	TGCCCACCTT	240
TGGCATAATA	AACAAACACA	AATTATCTAT	TATATAAAGG	GTGTTAGAAG	ATGCTTTAGA	300
ATACAAATAA	ATCATGGTAG	ATAACAGTAA	GTTGAGAGCT	TAAATTTAAT	AAAGTGATAT	360
ACCTAATAAA	AATTAAATTA	AGAAGGTGTG	AATATACTAC	AGTAGGTAAA	TTATTTTCAT	420
AATTTATTTT	CTTTCTTAAT	CCTTTATAAT	GTTTTCTGCT	ATTGTCAATT	GCACATCCAT	480
ATGTTCAATT	CTTCACTGTA	ATGAAGAAAT	GTAGTAAATA	TACTTTCCGA	ACAAGTTGTA	540
TCAAATATGT	TACACTTGAT	TCCGTGTGTT	ACTTATCATT	TTATTATTAT	ATTGATTGCA	600
TTCTTTCGTT	ACTTGATATT	ATTACAAGGT	ACATATTTAT	TCTCTCAGAT	CTTCATTATA	660
CTCTAACCAT	TTTATAACAT	ACTTTATTTA	TTCATTTCTT	ATGTGTGCTG	TGAGGCACAA	720
ATGCCAGAGA	GAACCTTGAGC	AGATAAGAGG	ACAAATTGCA	AGAGTCAGTT	ACCTCCTGCT	780
GTTCTTGGA	AACTCAGGAT	CAAATTCAGG	TTGTCAGGCT	TGGCAGCATG	CACTTTTTAC	840
CAGTGCCCTC	ATCTTGCTAG	CCCTGAACAT	CAAGCTTTGC	AGACAGACAG	GCTACACTAA	900
GTGAAGTGGT	CATTACAGC	ATGCATGGTG	ATTTATTGTT	ACTTTCCTAT	CCATGCCTTT	960
ACTATTTCTA	CTAGGTGCTA	GCTAGTACTG	TATTTTCGAGA	TAGAAGTTAC	TGAAAGAAAA	1020
TTACATTGTT	TTCTATAGAT	CCTTGATACT	CTTTCAGCAG	ATATAGAGTT	TTAATCAGGT	1080
CCTAGACCTT	TTCTTCACTC	TTATTAAATA	CTAAGTACAA	ATTAAGTTTA	TCCAAAACAG	1140
TACGGATGTT	GATTTTGTGC	AGTTCTACTA	TGATAATAGT	CTAGCTTCAT	AAATCTGACA	1200
CACTTATTGG	GAATGTTTTT	GTTAATAAAA	GATTCAGGTG	TTACTCTAGG	TCAAGAGAAT	1260
ATTAAACATC	AGTCCCAAAT	TACAACTTC	AATAAAAGAT	TTGACTCTCC	AGTGGTGGCA	1320
ATATAAAGTG	ATAATGATTA	TCATCTACAT	ATCACAACGT	GCGTGGAGG		1369

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22118 base pairs

(B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTC	CCCT	ATCCCT	AAATC	CAGATT	GGTG	GAATAA	CTTG	GTATAG	ATGT	TTGTGC	ATTA	60
AAAACC	CTGT	AGGATC	TTCA	CTCTAG	GTCA	CTGTTT	CAGCA	CTGGA	ACCTG	AATTGT	TGGCC	120
CTGAGT	GATA	GGTCCT	GGGA	CATATG	CAGT	TCTGCA	CAGA	CAGAC	CAGACA	GACAG	CAGA	180
CAGAC	CAGACA	GACAG	ACGTT	ACAAAC	AAAC	ACGTTG	AGCC	GTGTGC	CAAC	ACAC	CACAA	240
ACACCA	CTCT	GGCCATA	AATT	ATTGAG	GACG	TTGATT	TATT	ATTCTG	TGTT	TGTG	AGTCTG	300
TCTGTC	TGTC	TGTCTG	TCTG	TCTGTC	TGTC	TATCAA	ACCA	AAAGAA	ACCA	AACA	ATTATG	360
CCTGCC	TGCC	TGCC	TGCC	CCTACA	CAGA	GAAATG	ATT	CTTCA	ATCA	TCTAAA	ACGA	420
CCTCCT	TAAGT	TTGCCT	TTTTT	TCTCTT	TCTT	TATCTT	TTTTC	TTTTTT	TCTTT	TCTTCT	TCCT	480
TCCTTC	CTTC	CTTCCT	CTTC	CTTCCT	CTTC	CTTCCT	CTTC	TTCTTT	CTTTT	CTTACT	TTTCT	540
TTCTTT	CTCTT	CTTAC	ATTTA	TTCTTT	CTAT	ACATAG	TTTC	TTAGTG	TAAG	CATCC	CTGAC	600
TGCTTT	GTAAG	ACACTT	TGT	GGCTC	CAATC	CTGTA	AGAGC	CTTC	CTCTG	CTTTC	CAAATG	660
CTGGC	CATGAA	TGTTGT	TACCT	CACTAT	GACC	AGCTTA	GTCT	TCAAG	CTGA	GTTACT	TGGAA	720
AGGAG	TTCCA	AGAAG	ACTGG	TTATAT	TTTTT	CATTTA	TATAT	TGCAT	TTTAA	TTAAA	ATTTA	780
ATTTCA	CCAA	AAGAAT	TTAG	ACTGA	CCAAT	TCAGAG	CTG	CCGTT	TAAAA	GCATA	AAGGAA	840
AAAGT	AGGAG	AAAAAC	GTGA	GGCTGT	CTGT	GGATGG	TCCA	GGCTG	CTTTA	GGGAG	CCCTCG	900
TCACCA	TTCT	GCACTT	GTCAA	ACCGG	GGCCAC	TAGAAC	CCCGG	TGAAG	GGAGA	AACCA	AAGCG	960
ACCTG	GAAAC	AATAG	GTAC	ATGA	AGGCCA	GCCAC	CTCCA	TCTTG	TGTG	CGGG	AGTTCA	1020
GTTAG	CAGAC	AAGAT	GGCTG	CCATG	CACAT	GTTGT	CTTTC	AGCTT	GGTGA	GGTCA	AAGTA	1080
CAACC	GAGTC	ACAGA	ACAAG	GAAGT	AACA	CAGTG	AGTTC	CAGGT	CAGCC	AGAGT	TTTACA	1140
CAGAG	AAACC	ACATC	TTGAA	AAAAA	CAAAA	AAATAA	ATTA	AATAA	ATATA	ATTTA	AAAAAT	1200
TTAAAA	ATAG	CCGGG	AGTGA	TGGCG	CATGT	CTTTA	ATCCC	AGCTC	TCTTC	AGGC	CAGAGAT	1260
GGGAG	GATTT	CTGAG	TTTGA	GGCC	AGCCTG	GTCTG	CAAAAG	TGAGT	TCCAG	GACAG	TCAGG	1320
GCTATA	CAGA	GAAAC	CTGT	CTTGAA	AAACT	AAACTA	AAAT	AAACTA	AAACT	AAACTA	AAAAA	1380
AATATA	AAAAAT	AAAAA	TTTTTA	AAGAAT	TTTTTA	AAAAA	CTACA	GAAAT	CAAAC	ATAAG	CCCAC	1440
GAGAT	GGCAA	GTAAC	TGCAA	TCATAG	CAGA	AATAT	TATAC	ACACA	CACAC	ACACA	GACTC	1500
TGTCAT	AAAA	TCCA	ATGTG	CTTC	ATGATG	ATCAA	ATTTT	GATAG	TCAGT	AATA	CTAGAA	1560
GAATC	CATATG	TCTG	AAAAATA	AAAGC	CAGAA	CCTTT	TCTGC	TTTGT	TTTTT	TTTGC	CCCCA	1620
AGATAG	GGTT	TCTCT	CAGTG	TATCCC	TGGC	ATCCC	TGCC	GGAAC	TTCT	TTGAG	GTTT	1680
GGTAG	CCCTCA	AACTC	CAGAGA	GGTCC	TCTCT	GCC	TGCC	CTG	CTGC	CTGC	TGC	1740
CTGCC	TGCC	GCCTG	CCCTCA	CTTCT	TCTGC	CACCC	CACACA	ACCG	AGTCGA	ACCT	AGGATC	1800
TTTATT	TCTT	TCTTCT	TCTC	TCTTCT	TCTT	TTCTT	CTTTT	CTTCT	TTTCT	TTCTT	TCTTT	1860
CTTTCT	TTTCT	TTCTT	ATTCA	ATTAG	TTTTT	AATGT	AAAGTG	TGTGT	TTTGTG	CTCT	ATCTGC	1920
TGCCT	TATAG	CTGCT	TGCC	AGGAG	AGGGC	AACGA	AACCT	AGGAG	AAACC	ACCAT	GACG	1980
TCCTG	GAGAT	AAGT	GAAAAA	ACA	CAAAAA	AAGGA	AAATTC	TAAT	CACATA	GAAT	GTAGAT	2040
ATATG	CCGAG	GCTGT	CAGAG	TGCT	TTTTTAA	GGCT	TAGTGT	AAGTA	ATGAA	AATT	GTTGTG	2100
TGTCT	TTTTAT	CCAA	ACACAG	AAGAG	AGGTG	GCTC	GGCCTG	CATGT	CTGTT	GTCT	GCGATG	2160
AGACC	AGGCT	GGCCT	TGAAC	ACATTA	ATCT	GTCTG	CCCTCT	GCTT	CCCTAA	TGCT	GCGATT	2220
AAAGG	CATGT	GCCAC	CACTG	CCCG	ACTGA	TTTCT	TCTTTT	TTTTT	TTTTTT	TGG	AAAAATAC	2280
CTTTCT	TTTCT	TCTCT	TCTCT	CTCTT	TCTTC	CTTCT	TTCTT	TTCTT	TTCTAT	TCTT	TTTTTTT	2340
TTTCT	TTTTTT	CTTTTT	TTTTT	TTTTT	TTTTTAA	AATTT	TGCCTA	AGGT	TAAAGG	TGTG	CTCCAC	2400
AATTG	CCTCA	GCTCT	GTCTCT	AATTC	TCTTTT	AAAAA	AAAAA	AAACA	AAAAA	AAA	ACAAAAA	2460
CAGTAT	GTAT	GTAT	TATAT	TTAGA	AAGAAA	TACTA	ATCCA	TTA	ATAACTC	TTTTT	TCCTA	2520
AAATT	CATGT	CATT	CTTGTT	CCACA	AAAGTG	AGTT	CCAGGA	CTT	ACCAGAG	AAAC	CCCTGTG	2580
TTCAA	ATTTT	TGTG	TTCAAG	GTC	ACCCTGG	CTT	ACAAAGT	GAGT	TCCAAG	TCCG	ATAGGG	2640
CTACA	CAGAA	AAAC	CATATC	TCAGA	AAAAA	AAAA	AGTTCC	AAAC	CACAC	ACAC	CACAC	2700
ACACA	CACAC	ACACA	CACAC	ACACA	CACAC	ACACA	CACAG	CGC	CGCCGCGG	CGAT	GAGGGG	2760
AAGTC	GTGCC	TAA	ATAAAT	ATTTT	TCTGG	AGCA	AAATGAA	AGCA	AAATCAC	TATG	AAGAGG	2820
TACTC	CTAGA	AAAA	ATAAAT	ACAA	ACGGGC	TTTTT	TAATCA	TTCC	AGCACT	GTTT	TAATTT	2880
AACTC	TGAAT	TTAG	TCTTGG	AAA	AGGGGGC	GGGT	TGTGGGT	GAGT	GAGGGC	GAGC	GAGCAG	2940
ACGGC	CGGGC	GGG	CGGGTGA	GTG	CGGGC	GCGG	TGGCAG	CGAG	CACCAG	AAA	ACAACAA	3000
ACCCCA	AAGCG	GTAG	AGTGGT	TTAAA	AAATGA	GAC	CTAAATG	TGGT	TGGAACG	GAGG	TCGCCC	3060
CCACCC	CTCT	CTTC	CACCTG	TTAG	TGCTG	CCTT	CCCTT	ACTG	TGCTCC	CTTC	CCCTAA	3120
CTGTG	CCTAA	CTGTG	CCTGT	TCC	CTCACCC	CGCTG	ATTCG	CCAG	CACGT	ACTT	TGACTT	3180

CAAGAACGAT TTTGCCTGTT TTCACCGCTC CCTGTCATAC TTTCGTTTTT GGGTGCCCGA 3240
 GTCTAGCCCG TTGCTATGTT TCGGGCGGGA CGATGGGGAC CGTTTGTGCC ACTCGGGAGA 3300
 AGTGGTGGGT GGGTACGCTG CTCCGTCGTG CGTGCGTGAG TGCCCGAACC TGAGCTCGGG 3360
 AGACCTCCCG GAGAGACAGA ATGAGTGAGT GAATGTGGCG GCGCGTGACG GATCTGTATT 3420
 GGT'TGTATG GTTGATCGAG ACCATTGTGCG GCGACACCT AGTGGTGACA AGTTTCGGGA 3480
 ACGCTCCAGG CCTCTCAGGT TGGTGACACA GGAGAGGGAA GTGCCTGTGG TGAGGCGACC 3540
 AGGGTGACAG GAGGCCGGGC AAGCAGGCCG GAGCGTCTCG GAGATGGTGT CGTGT'TAAG 3600
 GACGGTCTCT AACAAAGAGG TCGTACAGGG AGATGGCCAA AGCAGACCGA GTTGCTGTAC 3660
 GCCCTTTTGG GAAAAATGCT AGGGTTGGTG GCAACGTTAC TAGGTCGACC AGAAGGCTTA 3720
 AGTCCTACCC CCCCCCCCCT TTTTTTTTTT TTTCCTCCAG AAGCCCTCTC TTGTCCCCGT 3780
 CACCGGGGGC ACCGTACATC TGAGGCCGAG AGGACGCGAT GGGCCCCGGT TCCAAGCCGG 3840
 TGTGGCTCGG CCAGCTGGCG CTTCGGGTCT TTTTTTTTTT TTTTTTTTTT TTTTCCTCCA 3900
 GAAGCTTTGT CTGTCGCTGT CACCGGGGGC GCTGTACTTC TGAGGCCGAG AGGACGCGAT 3960
 GGGCCCCGGC TTCCAAGCCG GTGTGGCTCG GCCAGCTGGA GCTTCGGGTC TTTTTTTTTT 4020
 TTTTTTTTTT TTTTTTTCTC CAGAAGCCTT GTCTGTCGCT GTCACCGGGG GCGCTGTACT 4080
 TCTGAGGCCG AGAGGACGCG ATGGGTGCGC TTCCAAGCCG ATGTGGCGGG GCCAGCTGGA 4140
 GCTTCGGGTT TTTTTTTTTT CTCCAGAAGC CCTCTCTTGT CCCCGTCACC GGGGCGCTG 4200
 TACTTCTGAG GCCGAGAGGA CGTGATGGGC CCGGTTCCA GCGGATGTC GCCCGGTCAG 4260
 CTGGAGCTTT GGATCTTTTT TTTTTTTTTT CCTCCAGAAG CCTCTCTTG TCCCCGTCAC 4320
 CGGGGGCACC TTACATCTGA GGGCGAGAGG ACCTGATGGG TCCGGCTTCC AAGCCGATGT 4380
 GCGGGGGCCA GCTGGAGCTT CGGGTTTTTT TTTTTCCTC CAGAAGCCCT CTCTTGTCCT 4440
 CGTCACCGGG GCGCTGTAC TTCTGAGGCC GAGAGACGT GATGGGCCCG GGTTCAGGC 4500
 GGATGTCGCC CCGTCAGCTG GAGCTTTGGA TCATTTTTTT TTTTCCCTCC AGAAGCCCTC 4560
 TCTTGTCCCC GTCACCGGGG GCACCGTACA TCTGAGGCCG AGAGGACACG ATGGGCTGT 4620
 CTTCCAAGCC GATGTGGCCC GGCCAGCTGG AGCTTCGGGT CTTTTTTTTT TTTTTCCTC 4680
 CAGAAGCCTT GTCTGTGCT GTACCCCGGG GCGCTGTACT TCTGAGGCCG AGAGGACGCG 4740
 ATGGGCCCGG CTTCCAAGCC GGTGTGGCTC GGCCAGCTGG AGCTTCGGGT CTTTTTTTTT 4800
 TTTTTTTTTT TTCTCCAGA AACCTTGCTC GTCGCTGTCA CCCGGGGCGC TTGTACTTCT 4860
 GATGCCGAGA GGACGCGATG GGCCCGTCTT CCAGGCCGAT GTGGCCCGGT CAGCTGGAGC 4920
 TTTGGATCTT TTTTTTTTTT TTTTCCTCCA GAAGCCCTCT CTGTCCCCG TCACCGGGGG 4980
 CACCTTACAT CTGAGGCCTA GAGGACACGA TGGGCCCGGG TTCCAGGCCG ATGTGGCCC 5040
 GTCACCTGGA GCTTTGGATC TTTTTTTTTT GAGCTTTTGG GAAGCCCTCT TGTCCCCGTC 5100
 ACCGGTGGCA CTGTACATCT GAGGCGGAGA GGACATTATG GGCCCGGCTT CCAATCCGAT 5160
 GTGGCCCGGT CAGCTGGAGC TTTGGATCTT ATTTTTTTTT TAATTTTTTC TTCCAGAAGC 5220
 CCTCTTGTC CTGTACCCGG TGGCACGGTA CATCTGAGGC CGAGAGGACA TTATGGGCCC 5280
 GGCTTCCAGG CCGATGTGGC CCGGTTCAGT ATCTTTTTTT TTTTGTCTCT 5340
 TTTTCTCTCC AGAAGCCCTC TCTGTCCCTG TCACCGGGGG CCTGTACGT CTGAGGCCGA 5400
 GGGAAAGCTA TGGGCGCGGT TTTCTTTTCAT TGACCTGTG GTCTTATCAG TTCTCCGGT 5460
 TGTGAGGGTC GACCAAGTTGT TCCTTTGAGG TCCGGTTCTT TTCGTTATGG GGTCAATTTT 5520
 GGGCCACCTC CCCAGGTATG ACTTCCAGGC GTGCTGTGCT GCCTGTCACT TTCCTCCCTG 5580
 TCTCTTTTAT GCTTGTGATC TTTCTATCT TTTCTATTG GACCTGGAGA TAGGTACTGA 5640
 CACGCTGTCC TTTCCCTATT AACACTAAAG GACACTATAA AGAGACCTT TCGATTTAAG 5700
 GCTGTTTTGC TTGTCCAGCC TATTTCTTTT ACTGGCTTGG GTCTGTGCGG GTGCCTGAAG 5760
 CTGTCCCCGA GCCACGCTTC CTGCTTTCCC GGGCTTGCTG CTTGCGTGTG CTTGCTGTGG 5820
 GCAGCTTGTG ACAACTGGGC CTGTGTGACT TGCCTGCTGT CAGACGTTTT TCCCGATTT 5880
 CCCGAGGTGT CGTTGTACAC CCTGTCCCGG TTGGAATGGT GGAGCCAGCT GTGGTTGAGG 5940
 GCCACCTTAT TTCGGCTCAC TTTTTTTTTT TTTTTTTCTC TTGGAGTCCC GAACCTCCGC 6000
 TCTTTTCTCT TCCCGGTCTT TCTTCCACAT GCCTCCCGAG TGCATTTCTT TTTGTTTTTT 6060
 TTCTTTTTTT TTTTTTTTTT TTGGGGAGGT GGAGAGTCCC GAGTACTTCA CTCCTGTCTG 6120
 TGGTGTCCAA GTGTTTATGC CACGTGCCTC CCGAGTGCAC TTTTTTTTGT GGCAGTCGCT 6180
 CGTTGTGTTT TCTTGTCTG TGTCTGCCCG TATCAGTAAC TGTCTTGCCC CGCGTGTAA 6240
 ACATTCTAT CTGCTTGTG TCTCCCGATT GCGCGTCGTT GCTCACTCTT AGATCGATGT 6300
 GGTGCTCCGG AGTTCTCTTC GGGCCAGGGC CAAGCCGCGC CAGGCGAGGG ACGGACATTC 6360
 ATGGCGAATG GCGGCCGCTC TTCTCGTTCT CCGACGGGC CCTCGTCTCT CCACCCATC 6420
 CGTCTGCCCG TGGTGTGTGG AAGGCAGGGG TGCGGCTCTC CGGCCGACG CTGCCCCGCG 6480
 CGCACTTTTC TCAGTGGTTC GCGTGGTCTT TGTGGATGTG TGAGGCGCCC GGTGTGTGCC 6540
 TCACGTGTTT CACTTTGGTC GTGTCTCGCT TGACCATGTT TGTGTGACG CGCTGTTTCT TGTAAAGCGT 6600
 CCGGTGGCGT TGCATACCCT TCCCGTCTGG TGTGTGACG CTGCTTCTGA GCTGGTGGT 6660
 GAGGTGCTCC TGGACGTTT CAGGTTTGTG TCCTAGGTGC CTGCTTCTGA GCTGTGTGCC TTCCCGTTT 6720
 GCGCTCCCCA TTCCCTGGTG TGCCTCCGGT GCTCCGTCTG GCTGTGTGCC TTTCCGTTT 6780
 TGTCTGAGAA GCGCGTGAGA GGGGGGTCTA GGAGAGAAG AGGGGCAAGA CCCCCCTTCT 6840
 TCGTCGGGTG AGGCGCCAC CCCGCGACTA GTACGCCTGT GCGTAGGGCT GGTGCTGAGC 6900
 GGTCGCGGCT GGGGTTGGAA AGTTTCTCGA GAGACTCATT GCTTTCCCGT GGGGAGCTTT 6960
 GAGAGCCCTG GCTTTCGGGG GGGACGGTT CGGAGGCTC CCCTGTCCCG GGTGTCTCAG 7020
 AATGCCCTTG GAAGAGAACC TTCTGTTGC CGCAGACCCC CCCGCGCGGT CGCCCGCGTG 7080

TTGGTCTTCT	GGTTTCCCTG	TGTGCTCGTC	GCATGCATCC	TCTCTCGGTG	GCCGGGGCTC	7140
GTCGGGGTTT	TGGGTCCGTC	CCGCCCTCAG	TGAGAAAGTT	TCCTTCTCTA	GCTATCTTCC	7200
GGAAAGGGTG	CGGGCTTCTT	ACGGTCTCGA	GGGGTCTCTC	CCGAATGGTC	CCCTGGAGGG	7260
CTCGCCCCCT	GACCGCTTCC	CGCGCGCGCA	GCCTTTGCTC	TCTCGTCTAC	CGCGGCCCGC	7320
GGCCTCCCCG	CTCCGAGTTC	GGGGAGGGAT	CACGCGGGGC	AGAGCCTGTC	TGTCGTCTCTG	7380
CCGTTGCTGC	GGAGCATGTG	GCTCGGCTTG	TGTGGTTGGT	GGCTGGGGAG	AGGGCTCCGT	7440
GCACACCCCC	GCGTGCGCGT	ACTTTCCTCC	CCTCCTGAGG	GCCGCCGTGC	GGACGGGGTG	7500
TGGGTAGGCG	ACGGTGGGCT	CCCGGGTCCC	CACCGTCTTT	CCCGTGCCCT	ACCCGTGCCT	7560
TCCGTGCGGT	GCGTCCCTCT	CGCTCGCGTC	CACGACTTTG	GCCGCTCCCG	CGACGGCGGC	7620
CTGCGCCGCG	CGTGGTGCCT	GCTGTGTGCT	TCTCGGGCTG	TGTGGTTGTG	TCGCCTCGCC	7680
CCCCCCTTCC	CGCGGCAGCG	TTCCACACGC	TGGCGAAATC	GCGGGAGTCC	TCCTTCCCCCT	7740
CCTCGGGGTC	GAGAGGGTCC	GTGTCTGGCG	TTGATTGATC	TCGCTCTCGG	GGACGGGGACC	7800
GTTCTGTGGG	AGAACGGCTG	TTGGCCGCGT	GTCCGCGCAC	GTCGGACGTG	GGGACCCACT	7860
GCCGCTCGGG	GGTCTTCGTC	GGTAGGCATC	GGTGTGTCGG	CATCGGTCTC	TCTCTCGTGT	7920
CGGTGTGCGC	TCCTCGGGCT	CCCGGGGGGC	CGTCGTGTTT	CGGGTCGGCT	CGGCGCTGCA	7980
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GATTTTTGTA	AAGATTACTT	TTCTTAGTCT	GAGGAAAAAA	TAAAATAATA	TTGGGCTACG	21120
TTTCATTGCT	TCATTCTTAT	TTCTTTTCTT	TTCTTTTCTT	CTTTCAGATA	AGGAGGTCCG	21180
CCAGTTCCCT	CTGCCTTCG	GAAGATGTAG	GCATTGTCATT	GGGAAAAGCA	TTGTTTGAGA	21240
GATGTGCTAG	TGAACCAGAG	AGTTTGGATG	TCAAGCCGTA	TAATGTTTAT	TACAATATAG	21300
AAAAGTTCTA	ACAAAGTGAT	CTTTAACTTT	TTTTTTTTTT	TTTCTCCTTC	TACTTCTACT	21360
TGTTCTCACT	CTGCCACCAA	CGCGCTTTGT	ACATTGAATG	TGAGCTTTGT	TTTGCTTAAC	21420
AGACATATAT	TTTTTCTTTT	GTTTTTGCTT	GACATGGTTT	CCCTTTCTAT	CCGTGCAGGG	21480
TTCCCAGACG	GCCTTTTGAG	AATAAAATGG	GAGGCCAGAA	CCAAAGTCTT	TTGAATAAAG	21540
CACCACAACCT	CTAACCTGTT	TGGCTGTTTT	CCTTCCCAAG	GCACAGATCT	TTCCCAGCAT	21600
GGAAAAGCAT	GTAGCAGTTG	TAGGACACAC	TAGACGAGAG	CACCAGATCT	CATTGTGGGT	21660
GGTTGTGAAC	CACCCACCAT	GTGGTTGCCT	GGGATTTGAA	CTCAGGATCT	TCAGAAGACG	21720
AGTCAGGGCT	CTAAACCGAT	GAGCCATCTC	TCCAGCCCTC	CTACATTCCCT	TCTTAAAGGC	21780
TGAATGATCC	CAGCATGGGA	AGACAGTCTG	CCCTCTTTGT	GGTATATCAC	CATATACTCA	21840
ATAAAATAAT	GAAATGAATG	AAGTCTCCAC	GTATTTATTT	CTTCGAGCTA	TCTAAATTCT	21900
CTCACAGCAC	CTCCCCCTCC	CCCACACTGC	CTTCTCTCCT	ATGTTTGGGT	GGGGCTGGGG	21960
GAGGGGTGGG	TGCGGGGCG	GGATCTGCAT	GTCTTCTTGC	AGGTCTGTGA	ACTATTTGCG	22020
ATGGCCTGGT	TCTCTGAAC	TTGAGCCTT	GTCTATCCAG	AGGCTGACTG	GCTAGTTTTC	22080
TACCTGAAGT	CCCTGAGTGA	TGATTTCCCT	GTGAATTC			22118

(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 42999 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GCTGACACGC	TGTCCTCTGG	CGACCTGTGC	TCGGAGAGGT	TGGGCTCCG	GATGCGCGCG	60
GGGCTCTGGC	CTCACGGTGA	CCGGCTAGCC	GGCCGCGCTC	CTGCCTTGAG	CCGCCTGCCG	120
CGGCCCGCGG	GCCTGCTGTT	CTCTCGCGCG	TCCGAGCGTC	CCGACTCCCG	GTGCCGGGCC	180
GGGTCCGGGT	CTCTGACCCA	CCCGGGGGCG	GCGGGGAAGG	CGGCGAGGGC	CACCGTGCCC	240
CGTGCGCTCT	CCCGTGCGGG	CGCCCGGGCG	GCCGCACAAC	CCCACCCGCT	GGCTCCGTGC	300
CGTGCGGTGC	AGGCGTTCTC	GTCTCCCGCG	GGTTGTCCGC	CGCCCTTCC	CCGGAGTGGG	360
GGGTGGCCGG	AGCCGATCGG	CTCGCTGGCC	GGCCGGCCTC	CGCTCCCGGG	GGGCTCTTCG	420
ATCGATGTGG	TGACGTCGTG	CTCTCCCGGG	CCGGGTCCGA	GCCGCGACGG	GCGAGGGGCG	480
GACGTTCTGT	GCGAACGGGA	CCGTCTTTCT	CGCTCCGCCC	GCGCGGTCCC	CTCGTCTGCT	540
CCCTCTCCCC	CCCGCCGGCC	GGCGTGTGGG	AAGGCGTGGG	GTGCGGACCC	CGGCCCGACC	600
TCGCCGTCCC	GCCCGCCGCC	TTCGCTTCGC	GGGTGCGGGC	CGGCGGGGTC	CTCTGACGCG	660
GCAGACAGCC	CTGCCGTGTC	CCTCCAGTGG	TTGTGCACTT	GCGGGCGGCC	CCCCTCCGCG	720
GCGGTGGGGG	TGCCGTCCCC	CCGGCCCGTC	GTGCTGCCCT	CTCGGGGGGG	GTTTGCGCAG	780
GCGTCGGTTC	CGCCTGGGCC	CTTGCGGTGC	TCCTGGAGCG	CTCCGGGTTG	TCCCTCAGGT	840
GCCCGAGGGC	GAAACGTTGGT	GTGTCGTTC	CGCCCCCGGC	GCCCCCTCCT	CCGGTCGCCG	900
CCGCGGTGTC	CGCGCGTGGG	TCCTGAGGGA	GCTCGTCGGT	GTGGGGTTTC	AGGCGGTTTG	960
AGTGAGACGA	GACGAGACGC	GCCCCTCCCA	CGCGGGGAAG	GCGCGCCGCC	TGCTCTCGGT	1020
GAGCGCACGT	CCCGTGCTCC	CCTCTGGCGG	GTGCGCGCGG	GCCGTGTGAG	CGATCGCGGT	1080
GGGTTCGGGC	CGGTGTGACG	CGTGCGCCCG	CCGGCCCGCG	AGGGGCTGCC	GTTCTGCCTC	1140
CGACCGGTGC	TGTGTGGGTT	GACTTCGGAG	GCGCTCTGCC	TCGGAAGGAA	GGAGGTGGGT	1200
GGACGGGGGG	GCCTGGTGGG	GTTGCGCGCA	CGCGCGCACC	GGCCGGGCCC	CCGCCCTGAA	1260
CGCGAACGCT	CGAGGTGGCC	GCGCGCAGGT	GTTTCCTCGT	ACCGCAGGGC	CCCCTCCCTT	1320
CCCCAGGCTC	CCCTCGGCGC	CTCTGCGGGC	CCGAGGAGGA	GCGGCTGGCG	GGTGGGGGGA	1380
GTGTGACCCA	CCCTCGGTGA	GAAAAGCCTT	CTCTAGCGAT	CTGAGAGGCG	TGCCTTGGGG	1440
GTACCGGATC	CCCCGGGCGG	CCGCCCTCTG	CTCTGCCTCC	GTTATGGTAG	CGCTGCCGTA	1500
GCGACCCGCT	GCGAGAGGAC	CCTCCTCCGC	TTCCCCCTCG	ACGGGGTTGG	GGGGGAGAAG	1560
CGAGGGTTCC	GCCGGCCACC	GCGGTGGTGG	CCGAGTGCGG	CTCGTCGCCT	ACTGTGGCCC	1620
GCGCCTCCCC	CTTCCGAGTC	GCGGGAGGAT	CCCGCCGGGC	GCGGCCCGGC	GCTCCACACC	1680
AGCGGGTTGG	GACGCGGCGG	CCGGCGGGCG	GTGGGTGTGC	GCGCCCGGCG	CTCTGTCCGG	1740
CGCGTGACCC	CCTCCGTCCG	CGAGTCGGCT	CTCCGCCCGC	TCCCGTGCCG	AGTCGTGACC	1800
GGTGCCGACG	ACCGCGTTTT	CGTGGCACGG	GGTCGGGCCC	GCCTGGCCCT	GGGAAAGCGT	1860
CCCACGGTGG	GGGCGCGCCG	GTCTCCCGGA	GCGGGACCGG	GTCGGAGGAT	GGACGAGAAT	1920
CACGAGCGAC	GGTGGTGGTG	GGGTGTCCGG	TTCGTGCGTG	CGGTCCGCTC	GGGGCCCCCG	1980
GTGGCGGGGC	CCCGGGGCTC	GCGAGGCGGT	TCTCGGTGGG	GGCCGAGGGC	CGTCCGGCGT	2040
CCCAGGCGGG	GCGCCGCGGG	ACCGCCCTCG	TGTCTGTGGC	GGTGGGATCC	CGCGGCGGTG	2100
TTTTCTTGTT	GGCCCGGGCG	TGCTGAGGT	TTCTCCCCGA	GCCGCCGCCT	CTGCCGGCTC	2160
CCGGGTGCCC	TTGCCCTCGC	TGCTCCCGCG	CCTCGCCCGT	CTGTGCCCTC	TTCCCCGCCC	2220
GCCGCCCGCC	GATCCTCTTC	TTCCCCCGGA	GCGGCTCACC	GGCTTCACGT	CCGTTGGTGG	2280
CCCCGCCTGG	GACCGAACCC	GGCACCGCCT	CGTGGGGCGC	CGCCGCCGGC	CACTGATCGG	2340
CCCGGCGTCC	GCGTCCCCCG	GCGCGCGCCT	TGGGGACCGG	GTCGGTGGCG	CGCCGCGTGG	2400
GGCCCGGTGG	GCTTCCCGGA	GGGTTCGGGG	GGTCGGCCTG	CGGCGCGTGC	GGGGGAGGAG	2460
ACGGTTCCCG	GGGACCGGCC	GCGGCTGCGG	CGGCGGCGGT	GGTGGGGGGA	CGCGCGGGGA	2520
TCGCCGAGGG	CCGGTTCGGC	GCCCCGGGTG	CCCCGCGGTG	CCGCCGGCGG	CGGTGAGGCC	2580
CCGCGCGTGT	GTCCCGGCTG	CGGTTCGGCC	CGCTCGAGGG	GTCCCCGTGG	CGTCCCCCTT	2640
CCCGCCGGCC	GCCTTCTCTG	CGCCTTCCCC	GTGCCCCCGG	CCTCGCCCCG	GGTCTCTCTG	2700
CTTCTCTCCG	CCGCTCTTTC	CGAACCGGGT	CGGCGCGTCC	CCCGGGTGCG	CCTCGCTTCC	2760
CGGGCCTGCC	CGGGCCCTTC	CCCGAGGCGT	CCGTCCCGGG	CGTCGGCGTC	GGGGAGAGCC	2820
CGTCTCTCCC	GCGTGGCGTC	GCCCCGTTTC	GCGCGCGCGT	GCGCCCCGAG	GCGGCCCGGT	2880
GGTCCCTCCC	GGACAGGCGT	TGCTGCGACG	TGTGGCGTGG	GTCGACCTCC	GCCTTGCCCG	2940
TCGCTCGCCC	TCTCCCCGGG	TCGGGGGGTG	GGGCCCGGGC	CGGGGCCTCG	GCCCCGGTCC	3000
CTGCTCTCCG	TCCCGGGCGG	GCGCGGGCGC	CTCGGTTCGC	CTCCCTTGGC	CTCCCTTGGC	3060
CGTCGTGTGG	CGTGTGCCAC	CCCTGCGCCG	GCGCCCGCCG	GCGGGGCTCG	GAGCCGGGCT	3120
TCGGCCGGGG	CCCGGGCCCT	CGACCGGACC	GGCTGCGCGG	GCGCTGCGGC	CGACCGGCGC	3180
GACTGTCCCC	GGGCCGGGCA	CCGCGGTCCG	CCTCTCGCTC	GCCGCCCGGA	CGTCGGGGCC	3240
GCCCCGCGGG	GCGGCGGGAG	CGCCGTCCCC	GCCTCGCCCG	CGCCCGCGGG	CGCCCGCCCG	3300
GCGCGCGCGC	GCGTGGCCCG	CGGTCCCTCC	GCGCGGGTTC	GGCCGTCGCG	GCCCGTCCCG	3360
CTCCTCGCGG	GCGGGCGCGA	CGAAGAAGCG	TCGCGGGTCT	GTGGCGCGGG	GCCCCCGGTG	3420

GTCGTGTCGC	GTGGGGGGGCG	GGTGGTTGGG	GCGTCCGGTT	CGCCGCGCCC	CGCCCCGGCC	3480
CCACCGGTCC	CGGCCGCGGC	CCCCGCGCCC	GCTCGCTCCC	TCCCGTCCGC	CCGTCCGCGG	3540
CCCGTCCGTC	CGTCCGTCCG	TCGTCTCTCT	CGTTGCGGG	GCGCCGGGCC	CGTCTCTCGC	3600
AGGCCCCCCG	GCCGGCCGTC	CGGCCGCGTC	GGGGCTCGC	CGCGCTCTAC	CTTACCTACC	3660
TGGTTGATCC	TGCCAGTAGC	ATATGCTTGT	CTCAAAGATT	AAGCCATGCA	TGTCTAAGTA	3720
CGCACGGCCG	GTACAGTGAA	ACTGCGAATG	GCTCATTAAA	TCAGTTATGG	TTCTTTTGGT	3780
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GATTCCGGAG	AGGGAGCCTG	AGAAACGGCT	ACCACATCCA	AGGAAGGCAG	CAGGCGCGCA	4140
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AGTCTGGTGC	CAGCAGCCGC	GGTAATTCCA	GCTCCAATAG	CGTATATTAA	AGTTGCTGCA	4320
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CTGAGGCCAT	GATTAAGAGG	GACGGCCGGG	GGCATTTCGT	TTGCGCCGCT	AGAGGTGAAA	4620
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ACCAAAGTCT	TTGGGTTCCT	GGGGGAGTAT	GGTTGCAAA	CTGAAACTTA	AAGGAATTGA	4860
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ACCCGGCCCC	GACACGGACA	GGATTGACAG	ATTGATAGCT	CTTTCTCGAT	TCCGTGGGTG	4980
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CGGCAGGCGC	GGGTAAACCC	TTGAACCCCA	TTGCTGATGG	GGATCGGGGA	TTGCAATTAT	5280
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CGCGGCGGGT	GTTGACGCGA	TGTGATTTCT	GCCCAGTGCT	CTGAATGTCA	AAGTGAAGAA	11640
ATTCAATGAA	GCGCGGGTAA	ACGGCGGGAG	TAACATATGAC	TCTCTTAAGG	TAGCCAAATG	11700
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 GGGCGACAGA GCGAGACTCC GTCTCCAAAA AATGAAAAATG AAAATGAAAC GCAACAAAAT 39060
 AATTAAAAAG TGAGTTTCTG GGGAAAAAGA AGAAAAAGAAA AAAGAAAAAA ACAACAAAAC 39120
 AGAACAAACC CACCGTGACA TACACGTACG CTTCTCGCCT TTCGAGGCCT CAAACACGTT 39180
 AGGAATTATG CGTGATTCT TTTTAACT TCATTTTATG TTATTATCAT GATTGATGTT 39240
 TCGAGACGGA CCGGCCCTCC CTGGTTGCC AGACAACCCC GGGAGACAGA 39300
 CCCTGGCTGG GCCCGATTGT TCTTCTCCTT GGTCAGGGGT TTCCTTGTCT TTCTTCGTGT 39360
 CTTTAACCCG CGTGGACTCT TCCGCCCTCG GTTTGACAGA TGGCAGCTCC ACTTTAGGCC 39420
 TTGTTGTGT TGGGGACTTT CCTGATTCTC CCCAGATGTA GTGAAAGCAG GTAGATTGCC 39480
 TTGCCTGGCC TTGCCTGGCC TTGCCTTTTC TTTCTTTCTT TCTTTCTTTA TTACTTTCTC 39540
 TTTTCTTCT TCTTCTTCTT CTTTCTTTTG AGACAGAGTT TCACTCTTGT TGCCAGGCT 39600
 AGAGGGCAAT GGCGCGATCT CGGCTCACCG CACCCTCCGC CTCCAGGTT CAAGCGATT 39660
 TCCTGCCTCA GCTCCTGAT TAGCTGGGAT TACAGGCATG GGCCACCGTG CTGGCTGATG 39720
 TTTGTACTTT TAGTAGAGAC GGTGTTTTTC CATGTTGGTC AGGCTGGTCT CCCACTCCCA 39780
 ACCTCAGGTG GTCCGCTGC CTTAGCCTCC CAAAGCTCG CTGATGACAG CGTCAACCG 39840
 CGCCCAGCCT CTCTCTCTCT TCTCTCTCT CTCGCTCGCT TGCTTGCTTG CTTTCGTGCT 39900
 TTCTTGCTTT CCCGTTTTCT TGCTTTCTTT CTTTCTTTTG TTTCTTTCTT GCTTGCTTTT 39960
 TTGCTTGCTT GCTTGCTTTT GTGCTTTCTT GCTTTCTCTT TTTCTTTCTT TCTTTCTTTT 40020
 TTTCTTTCTT TTGTTTCTTT CTGCTTGCT TTCTTGCTTG CTGCTTGCTT TTCGTGCTTT 40080
 CTTGCTTTCC TGTTTCTTT CTTTCTTTCT TCTTTCTTT TCTTTCTTGC TTGCTTTCTT 40140
 GCTTGCTTGCT TTTCGTGCTT TCTTGTTTT TCGATTTCTT TCTTTCTTTT GTTTCTTTCC 40200
 TGCTTGCTTT CTGCTTGCTT TGCTTTCTTG CTCTTGCTT TCCTGTTTTT TTTCTTTCTT 40260
 TCTTTCTTTT GTTCTTTCTT TGCTTGCTTT CTGCTTGCT TGCTTTCTTG CTGTCTTGTT 40320
 TCTCGATTTT TTTCTTTCTT TTGTTTCTTT CTTGCTTGCT TTCTTGCTTG ATTGCTTTCC 40380
 TGCTGTTTTG CTTTCTTGTT CTTTCTTTT CTTTGTTTT TTTCTTTCTT TTTCTTTCTT 40440
 TTTCTTGCTT TCTTGCTTGC TTGCTTTCTT TGTTTCTTG CTTTCTTGCT TGCTTGCTTT 40500
 GTTCTTTCTT TGCTTGCTTT CTTTCTTTT TTTCTTTCT TTTCTTTCTT TTCTTGCTTT 40560
 CGTGCTTTCT TTCTTGCTTT CTTTCTTTT ATCTTTCTT TTTCTTTCTT TCTATCTTT 40620
 CTTTCTTTT ATCATCTT TTTCTTTCTT TCTTTCTTG TCGTCTTTT GAGACAGAGT 40680
 TTTCTTTCTT TCTTTCTTTT TTTCTTTCTT TCTTTCTTG TCGTCTTTT GAGACAGAGT 40740
 TTCCTCTTG TTTCCACGGC TAGAGTGCAA TGGCGCGATC TTGGCTCACC GCACCTTCCG 40800
 CCTCCCGGGT TCGAGCGCTT CTCTGCTC CAGCCTCCCG ATTAGCGGGG ATTGACAGGG 40860
 AGGCACCCCC ACGCTGGCT TGGCTGATG TTGTTTCTT GATGCTTTT AGTAGGCACG 40920
 CCATGTTGCT CAGGCTGGT CCAACTCCC GACCTCTGT GATGCGCCA CTCCGCTC 40980
 TCGAAGTGCT GGGATGACGG GCGTGACGAC CGTGCCCGGC CTGTTGACTC ATTTGCTTT 41040
 TTTATTTCTT TCGTTTCCAC GCGTTTACTT ATATGTATTA ATGTAAACGT TTCTGTACG 41100
 TTATATGCAA ACAACGACAA CGTGATCTG TGCATTGAAT ACTCTGCGT ATGGTAAATA 41160
 CGTATCGGTT GTATGAAAT AGACTTCTGT ATGATAGATG TAGGTGTCTG TGTATACAA 41220
 ATAAATACAT ATCGCTCTAT AAAGAAGGGA TCGTCGATAA AGACGTTTAT TTTACGTATG 41280
 AAAAGCGTCG TATTTATGTG TGTAATGAA CCGAGCGTAC GTAGTTATCT CTGTTTCTT 41340
 TCTTCTCTC CTTCGTGTTT TTCTTCTT CTTTCTTCTT TTTCTTCTT CTTTAGGTTT 41400
 TTCTTCTCT CTTCCTTTCC TTTCTTCTT CTTTCTGCT TTTTCTTCTT CGTGCTTTAT 41460
 TTCTTCTTCT TTCCCTGTGT TTCTTCTT TTTCTTCTT CTCTGTTTCT TTTTCTTCTT 41520
 TTTCTTCTCT TTCTTCTCT ATTTCTTCT TCTTTTCTG TGTTTCTTTC CTTCCGCTT 41580
 GTCTTTTAAA AAATTGGAGT GTTTCAGAAG TTTACTTTGT GTATCTACGT TTTCTAAATT 41640
 GTCTCTCTT TCTCCATTTT CTTCCTCCCT CCTCCCTCC CTCCCTGCTC CTTTCCCTC 41700
 CTCTTCTCT TTCGCCATCT GTCTCTTTT CCCACTCCC TCCCCCGTC TGTCTGTG 41760
 TGGATTCCGG AAGAGCCTAC CGATTCTGCC TCTCGTGTG TCTGACGCA CCCCAGGAC 41820
 GAGTCCTTGT GTGTTCTTTC TCCCTCCCT CCTCCCTCC TCCCTCCCTC CCTCCCTGCT 41880
 TCCGAGAGGC ATCTCCAGAG ACCGCGCCGT GGGTTGTCTT CTGACTCTGT CGCGGTGCG 41940
 GCAGAGACGC GTTTTGGGCA CCGTTTGTGT GGGGTTGGGG CAGAGGGGCT GCGTTTTCGG 42000
 CCTCGGAAG AGCTTCTCGA CTCACGTTT CGCTTTCGCG GTCACGGGC CGCCCTGCCA 42060
 GCCGATCTG TCTCGCTGAC GTCCGCGGCG GTTGTGCGGC TCCATCTGGC GGCCGCTTTG 42120
 AGATCGTGCT CTCGGCTTCC GGAGCTGCGG TGGCAGCTGC CGAGGGAGGG GACCGTCCCC 42180
 GCTGTGAGCT AGGCAGAGCT CCGGAAAGCC CGCGTCTGTC AGCCCGGCTG GCCCGGTGGC 42240
 GCCAGAGCTG TGGCCGGTCT CTTGTGAGTC ACAGCTCTG CGTGCAGGTT TATGTGGGG 42300
 AGAGGCTGTC GCTGCGCTTC GGGGCGCGG GCGGCGGTG GGTGCCCCG GCGGTGCGAC 42360
 CAGCGCGCCG TAGCTCCCGA GGCCCGAGCC GCGACCCGGC GGACCCCGC CGCGTGCGG 42420

AGGCTGGGGA	CGCCCTTCCC	GGCCCGGTCG	CGGTCCGCTC	ATCCTGGCCG	TCTGAGGCGG	42480
CGGCCGAATT	CGTTTTCCGAG	ATCCCCGTGG	GGAGCCGGGG	ACCGTCCCGC	CCCCGTCCCC	42540
CGGGTGCCCG	GGAGCGGTCC	CCGGGCCGGG	CCGCGGTCCC	TCTGCCGCGA	TCCTTTCTGG	42600
CGAGTCCCCG	TGGCCAGTCG	GAGAGCGCTC	CCTGAGCCGG	TGCGGCCCGA	GAGGTCGCGC	42660
TGGCCGGCCT	TCGGTCCCTC	GTGTGTCCCG	GTCGTAGGAG	GGGCCGGCCG	AAAATGCTTC	42720
CGGCTCCCCG	TCTGGAGACA	CGGGCCGGCC	CCTGCGTGTG	GCCAGGGCGG	CCGGGAGGGC	42780
TCCCCGGCCC	GGCGCTGTCC	CCGCGTGTGT	CCTTGGGTTG	ACCAGAGGGA	CCCCGGGCGC	42840
TCCGTGTGTG	GCTGCGATGG	TGGCGTTTTT	GGGACAGG	GTCCGTGTCC	GTGTCGCGCG	42900
TCGCCTGGGC	CGGCGGCGTG	GTCGGTGACG	CGACCTCCCG	GCCCCGGGGG	AGGTATATCT	42960
TTCTGCTCCG	GTCGGCAATT	TTGGGCCGCC	GGGTTATAT			42999

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

CTCCCCGCGC	GGCCCCGTGT	TCGCCGTTCC	CGTGGCGCGG	ACAATGCGGT	TGTGCGTCCA	60
CGTGTGCGTG	TCCGTGCAGT	GCCGTTGTGG	AGTGCCTCGC	TCTCCTCCTC	CTCCCCGGCA	120
GCGTTCCAC	GGTTGGGGAC	CACCGGTGAC	CTCGCCCTCT	TCGGGCCTGG	ATCCG	175

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 755 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GGTCTGGTGG	GAATTGTTGA	CCTCGCTCTC	GGGTGCGGCC	TTTGGGGAAC	GGCGGGGTGC	60
GTCGTGCCCG	GCGCCGGACG	TGTGTCGGGG	CCCACTTCCC	GCTCGAGGGT	GGCGGTGGCG	120
GCGGCGTTGG	TAGTCTCCCG	TGTTGCGTCT	TCCCGGGCTC	TTGGGGGGGG	TGCCGTCTGT	180
TTCGGGGCCG	GCGTTGCTTG	GCTTACGCAG	GCTTGGTTTG	GGACTGCCTC	AGGAGTCGTG	240
GGCGGTGTGA	TTCCCGCCCG	TTTGCCCTCG	CGTCTGCCTG	CTTTGCCTCG	GGTTTGCTTG	300
GTTCGTGTCT	CGGGAGCGGT	GGTTTTTTTT	TTTTTCGGGT	CCCGGGGAGA	GGGGTTTTTC	360
CGGGGGACGT	TCCCGTCGCC	CCCTGCCGCC	GGTGGTTTTT	CGTTTCGGGC	TGTGTTCTGT	420
TCCCTTCCC	CGTTTCGCCG	TCGGTTCTCC	CCGGTCGGTC	GGCCCTCTCC	CCGGTCGGTC	480
GCCCGGCCGT	GCTGCCGGAC	CCCCCTTCT	GGGGGGGATG	CCCGGGCACG	CACGCGTCCG	540
GGCGGCCACT	GTGGTCCGGG	AGCTGCTCGG	CAGGCGGGTG	AGCCAGTTGG	AGGGGCGTCA	600
TGCCCCCGCG	GGCTCCCGTG	GCCGACGCGG	CGTGTCTTTT	GGGGGGGCCT	GTGCGTGC	660
GAAGGCTGCG	CACGTTGTCG	GTCTTGCGA	GGGAAAGAGG	CTTTTTTTTT	TTAGGGGGTC	720
GTCTTCTGTC	GTCCCGTCGG	CGGTGGATCC	GGCCT			755

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GGCCGAGGTG	CGTCTGCGGG	TTGGGGCTCG	TCCGGCCCCG	TCGTCCTCCG	GGAAGGCGTT	60
TAGCGGGTAC	CGTCGCCCGG	CCGAGGTGGG	CGCACGTCGG	TGAGATAACC	CCGAGCGTGT	120
TTCTGGTTGT	TGGCGGCGGG	GGCTCCGGTC	GATGTCTTCC	CCTCCCCCTC	TCCCCGAGGC	180
CAGGTCAGCC	TCCGCCTGTG	GGCTTCGTCT	GCCGTCTCCC	CCCCCTCAC	GTCCCTCGCG	240
AGCGAGCCCC	TCCGTTTCGAC	CTTCCTTCCG	CCTTCCCCCC	ATCTTTCCGC	GCTCCGTTGG	300
CCCCGGGGTT	TTCACGGCGC	CCCCACGCT	CCTCCGCCTC	TCCGCCCCGT	GTTTGGACGC	360
CTGGTTCGGG	TCTCCCCGCC	AAACCCCGGT	TGGGTTGGTC	TCCGGCCCCG	GCTTGCTCTT	420
CGGGTCTCCC	AACCCCCGGC	CGGAAGGGTT	CGGGGGTTCC	GGG		463

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 378 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

GGATTCTTCA	GGATTGAAAC	CCAAACCGGT	TCAGTTTCCT	TTCCGGCTCC	GGCCGGGGGG	60
GGCGGCCCCG	GGCGGTTTGG	TGAGTTAGAT	AACCTCGGGC	CGATCGCACG	CCCCCGTGG	120
CGGCGACGAC	CCATTGGAAC	GTCTGCCCTA	TCAACTTTTC	ATGGTAGTCG	ATGTGCCTAC	180
CATGGTGACC	ACGGGTGACG	GGGAATCAGG	GTTTCGATTCC	GGAGAGGGAG	CCTGAGAAAC	240
GGCTACCACA	TCCAAGGAAG	GCAGCAGGCG	CGCAAATTAC	CCACTCCCGA	CCCGGGGAGG	300
TAGTGACGAA	AAATAACAAT	ACAGGACTCT	TTTCAGGCCC	TGTAATTGGA	ATGAGTCCAC	360
TTTAAATCCT	TTAAGCAG					378

(2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 378 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
 (iii) HYPOTHETICAL: NO
 (iv) ANTISENSE: NO
 (v) FRAGMENT TYPE:
 (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GATCCATTGG	AGGGCAAGTC	TGGTGCCAGC	AGCCGCGGTA	ATTCCAGCTC	CAATAGCGTA	60
TATTAAAGTT	GCTGCAGTTA	AAAAGCTCGT	AGTTGGATCT	TGGGAGCGGG	CGGGCGGTCC	120
GCCGCGAGGC	GAGTCACCGC	CCGTCCCCGC	CCCTTGCTCT	TCGGCGCCCC	CTCGATGCTC	180

TTAGCTGAGT	TGTCCCGCGG	GGCCCGAAGC	GTTTACTTTG	AAAAAATTAG	AGTTGTTTCA	240
AAGCAGGCC	GAGCCGCCTG	GATACCGCCA	GCTAGGAAAT	AATGGAATAG	GACCGCGGTT	300
CCTATTTTGT	TTGGTTTTTG	GAAGTGAAGC	CATGATTAAG	GGAAACGGCC	GGGGGCATTC	360
CCTTATTGCG	CCCCCCTA					378

(2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 719 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GGATCTTTCC	CGCTCCCCGT	TCCTCCCGGC	CCCTCCACCC	GCGCGTCTCC	CCCCTTCTTT	60
TCCCCCTCTCC	GGAGGGGGGG	GAGGTGGGGG	CGCGTGGGCG	GGGTCGGGGG	TGGGGTCGGC	120
GGGGGACCGC	CCCCGGCCGG	CAAAAGGCCG	CCGCCGGGCG	CACTTCAACC	GTAGCGGTGC	180
GCCGCGACCG	GCTACGAGAC	GGCTGGGAAG	GCCCGACGGG	GAATGTGGCT	CGGGGGGGGC	240
GGCGCGTCTC	AGGGCGCGCC	GAACCACTC	ACCCCGAGTG	TTACAGCCCT	CCGGCCGCGC	300
TTTCGCGGAA	TCCCAGGGCC	GAGGGGAAGC	CCGATACCCG	TCGCCGCGCT	TTTCCCCCTC	360
CCCCGTCCGC	CTCCCAGGCG	GGCGTGGGGG	TGGGGGCCGG	GCCGCCCCCTC	CCACGCCCCGT	420
GGTTTCTCTC	TCTCCCGGTC	TCGGCCGGTT	TGGGGGGGGG	AGCCCGGTTG	GGGGCGGGGC	480
GGACTGTCTT	CAGTGCGCC	CGGGCGTCGT	CGCGCCGTCG	GGCCCGGGGG	GTTCTCTCGG	540
TCACGCCCGC	CCCACGAAG	CCGAGCGCAC	GGGGTCGGCG	GCGATGTCGG	CTACCCACCC	600
GACCCGTCTT	GAAACACGGA	CCAAGGAGTC	TAACGCGTGC	GCGAGTCAGG	GGCTCGCACG	660
AAAGCCGCCG	TGGCGCAATG	AAGGTGAAGG	GCCCCGTCCG	GGGGCCCGAG	GTGGGATCC	719

(2) INFORMATION FOR SEQ ID NO:24:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 685 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGAGGCCTCT	CCAGTCCGCC	GAGGGCGCAC	CACCGGCCCG	TCTCGCCCGC	CGCGTCGGGG	60
AGGTGGAGCA	CGAGCGTACG	CGTTAGGACC	CGAAAGATGG	TGAACTATGC	CTGGGCAGGG	120
CGAAGCCAGA	GGAACTCTG	GTGGAGGTCC	GTAGCGGTCC	TGACGTGCAA	ATCGGTCGTC	180
CGACCTGGGT	ATAGGGGCGA	AAGACTAATC	GAACCATCTA	GTAGCTGGTT	CCCTCCGAAG	240
TTTCCCTCAG	GATAGCTGGC	GCTCTCGCAA	CCTTCGGAAG	CAGTTTTATC	CGGGTAAAGG	300
CGGAATGGAT	TAGGAGGTCT	TGGGGCCGGA	AACGATCTCA	AACTATTTCT	CAAACTTTAA	360
ATGGGTAAAG	AAGCCCGGCT	CGCTGGCGTG	GAGCCGGGCG	TGGAATGCGA	GTGCCTAGTG	420
GGCCACTTTT	GGTAAGCAGA	ACTGGCGCTG	CGGGATGAAC	CGAACGCCGG	GTTAAGGCGC	480
CCGATGCCGA	CGCTCATCAG	ACCCAGAA	AGGTGTTGGT	TGATATAGAC	AGCAGGACGG	540
TGGCCATGGA	AGTCGGAATC	CGCTAAGGAG	TGTGTAACAA	CTCACCTGCC	GAATCAACTA	600
GCCCTGAAAA	TGGATGGCGC	TGGAGCGTCG	GGCCCATACC	CGGCCGTCGC	CGGCAGTCGG	660
AACGGGACGG	GACGGGAGCG	GCCGC				685

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAGGAATTCC CCTATCCCTA ATCCAGATTG GTG

33

(2) INFORMATION FOR SEQ ID NO:26:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 35 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

AAACTGCAGG CCGAGCCACC TCTCTTCTGT GTTTG

35

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

AGGAATTCAC AGAAGAGAGG TGGCTCGGCC TGC

33

(2) INFORMATION FOR SEQ ID NO:28:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

AGCCTGCAGG AAGTCATACC TGGGGAGGTG GCCC

34

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 80 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

AAACTGCAGG TTAATTAACC CTAACCCTAA CCCTAACCCT AACCCCTAAC CTAACCCTAA
CCCTAACCCT AACCCGGGAT

60
80

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

TTGGGCCCTA GGCTTAAGG

19

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: Genomic DNA

(iii) HYPOTHETICAL: NO

(iv) ANTISENSE: NO

(v) FRAGMENT TYPE:

(vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GCCAGGGTTT TCCCAGTCAC GACGT

25

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

GCTGCAAGGC GATTAAGTTG GGTAAC

26

(2) INFORMATION FOR SEQ ID NO:33:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

TATGTTGTGT GGAATTGTGA GCGGAT

26

(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: Genomic DNA
- (iii) HYPOTHETICAL: NO
- (iv) ANTISENSE: NO
- (v) FRAGMENT TYPE:
- (vi) ORIGINAL SOURCE:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GGGTTTAAAC AGATCTCTGC A

21